

Vectorborne Surveillance in Ohio

July 7, 2022



Mosquito Surveillance

Here is a summary of mosquitoes identified and tested for West Nile virus (WNV) to date. For each jurisdiction, the table reports the total number of mosquitoes identified in traps, the number of resulting pooled samples tested or pending (up to 50 mosquitoes per sample), and those positive for WNV. The table shows only the mosquitoes that have been identified and processed as of noon on 07/07/2022:

2022 Ohio Mosquito Surveillance Summary, as of 7/7/22							
Counties (43 total)	Agencies (54 total)	Mosquitoes Identified	Mosquitoes Tested	Pools Pending	Pools Reported*	WNV+ Pools	% WNV Positive
Allen	City of Delphos	29	0	3	0	0	—
Ashland	Ashland County Health Department	79	8	0	1	0	0.0%
Ashtabula	Ashtabula City Health Department	113	0	3	0	0	—
Athens	Athens City County Health Department	1,155	1,043	0	39	0	0.0%
Carroll	Carroll County General Health District	1,106	679	10	28	0	0.0%
Clark	Clark County Combined Health District	5,161	3,160	41	104	0	0.0%
Clermont	Clermont County Public Health	1,764	774	27	30	0	0.0%
Crawford	Galion City Health Department	557	346	5	10	0	0.0%
Cuyahoga	Cuyahoga County Board of Health	148	0	5	0	0	—
Darke	Darke County General Health District	140	0	1	0	0	—
Delaware	Delaware Public Health District	775	599	0	27	0	0.0%
Fairfield	Fairfield Department of Health	1,065	847	5	44	0	0.0%
	Franklin County Public Health	1,279	951	0	23	0	0.0%
Franklin	Franklin County Public Health	40,985	29,947	58	747	3	0.4%
	Columbus Public Health	42,575	34,936	76	806	2	0.2%
Gallia	Gallia County General Health District	17	3	0	1	0	0.0%
Greene	Greene County Public Health	74	32	3	4	0	0.0%
Hamilton	Hamilton County Public Health	402	330	0	12	0	0.0%
	Cincinnati Health Department	2,283	2,000	3	62	0	0.0%

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Hancock	Hancock Public Health	2,068	1,845	4	66	1	1.5%
Hocking	Hocking County Health Department	92	15	0	2	0	0.0%
Knox	Knox Public Health	446	349	2	10	0	0.0%
Lake	Lake County General Health District	442	306	0	26	0	0.0%
Licking	Licking County Health Department	486	486	0	37	0	0.0%
	Ohio Department of Health	18	0	0	0	0	—
Lorain	Lorain County Public Health	9,697	7,356	42	200	1	0.5%
Mahoning	Mahoning County Public Health	645	504	0	23	0	0.0%
Medina	Medina County Health Department	1,042	912	0	35	0	0.0%
Meigs	Meigs County Health Department	520	394	0	34	0	0.0%
Montgomery	Public Health - Dayton & Montgomery County	46	32	0	4	0	0.0%
Morgan	Morgan County Health Department	149	67	0	4	0	0.0%
Ottawa	Ottawa County Health Department	772	725	0	39	0	0.0%
Pickaway	Pickaway County Public Health	38	14	1	1	0	0.0%
Pike	Pike County General Health District	409	338	0	11	0	0.0%
Portage	Portage County Health District	5,451	5,040	0	139	0	0.0%
	Kent City Health Department	8,989	5,197	2	156	0	0.0%
Richland	Richland Public Health	3,923	3,523	0	91	0	0.0%
	Shelby City Health Department	707	452	7	10	0	0.0%
Scioto	Scioto County Health Department	4,157	3,716	10	93	0	0.0%
	Portsmouth City Health Department	156	5	8	1	0	0.0%
Shelby	City of Sidney	63	0	0	0	0	—
Stark	Stark County Health Department	1,873	1,167	22	53	0	0.0%
	Canton City Public Health	7,684	7,097	0	188	1	0.5%
	Alliance City Health Department	1,003	407	10	11	0	0.0%
Summit	Summit County Public Health	7,859	6,664	0	224	0	0.0%

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Summit	Barberton Norton Mosquito Abatement District	8,299	6,433	0	186	0	0.0%
Trumbull	Trumbull County Combined Health District	40	5	0	1	0	0.0%
Tuscarawas	Tuscarawas County Health Department	890	0	20	0	0	—
	New Philadelphia City Health Department	164	126	0	8	0	0.0%
Union	Union County Health Department	1,828	1,813	0	48	0	0.0%
Vinton	Vinton County Health Department	389	365	0	11	0	0.0%
Wayne	College of Wooster	40	0	0	0	0	—
Wood	Bowling Green State University	2,271	742	1	39	0	0.0%
	Village of Pemberville	90	0	5	0	0	—
Wyandot	Wyandot County Public Health	32	21	0	3	0	0.0%
Totals:		172,485	131,771	374	3,692	8	0.2%

Testing Agency	Assay Used	# of Pools Reported
Ohio Department of Health	RT-PCR	2,498
Franklin County Public Health	RAMP	524
Columbus Public Health	VecTOR	555
	RAMP	78
Licking County Health Department	RAMP	37
Total # of Pools Reported:		3,692

Here is a breakdown by mosquito species identified:

Mosquito Species Identified	
Species	Total
<i>Aedes albopictus</i>	757
<i>Aedes canadensis</i>	144
<i>Aedes cantator</i>	26

Mosquito Species Identified	
Species	Total
<i>Aedes cinereus</i>	53
<i>Aedes excrucians</i>	1
<i>Aedes grossbecki</i>	22
<i>Aedes implicatus</i>	1
<i>Aedes intrudens</i>	2
<i>Aedes japonicus</i>	6,853
<i>Aedes riparius</i>	5
<i>Aedes sp.</i>	1,052
<i>Aedes sticticus</i>	1
<i>Aedes stimulans</i>	647
<i>Aedes tormentor</i>	2
<i>Aedes triseriatus</i>	680
<i>Aedes trivittatus</i>	1,560
<i>Aedes vexans</i>	2,512
<i>Anopheles barberi</i>	18
<i>Anopheles earlei</i>	1
<i>Anopheles perplexens</i>	23
<i>Anopheles punctipennis</i>	712
<i>Anopheles quadrimaculatus</i>	254
<i>Anopheles sp.</i>	10
<i>Coquillettidia perturbans</i>	712
<i>Culex erraticus</i>	8
<i>Culex restuans</i>	1
<i>Culex sp.</i>	156,327
<i>Culiseta morsitans</i>	1
<i>Orthopodomyia signifera</i>	25
<i>Orthopodomyia sp.</i>	2
<i>Psorophora columbiae</i>	16
<i>Psorophora ferox</i>	33
<i>Uranotaenia sapphirina</i>	8
unknown species	16
Total:	172,485

Here is the breakdown of *Ae. albopictus* collections by agency:

Breakdown of <i>Aedes albopictus</i> Identified		
County	Agency	Total
Athens	Athens City County Health Department	3
Clark	Clark County Combined Health District	11
Darke	Darke County General Health District	20
Delaware	Delaware Public Health District	1
Fairfield	Fairfield Department of Health	3
	Franklin County Public Health	10
Franklin	Franklin County Public Health	539
Gallia	Gallia County General Health District	5
Hamilton	Hamilton County Public Health	3
	Cincinnati Health Department	27
Hocking	Hocking County Health Department	8
Lake	Lake County General Health District	3
Lorain	Lorain County Public Health	1
Meigs	Meigs County Health Department	41
Morgan	Morgan County Health Department	7
Pickaway	Pickaway County Public Health	2
Pike	Pike County General Health District	2
Scioto	Scioto County Health Department	19
	Portsmouth City Health Department	41
Stark	Canton City Public Health	10
Tuscarawas	New Philadelphia City Health Department	1
Total:		757

Here is the breakdown of *Ae. triseriatus* collections by agency:

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Ashland	Ashland County Health Department	13

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Athens	Athens City County Health Department	6
Carroll	Carroll County General Health District	5
Clark	Clark County Combined Health District	7
Clermont	Clermont County Public Health	8
Crawford	Galion City Health Department	6
Darke	Darke County General Health District	3
Delaware	Delaware Public Health District	3
Fairfield	Fairfield Department of Health	8
	Franklin County Public Health	2
Franklin	Franklin County Public Health	68
	Columbus Public Health	1
Gallia	Gallia County General Health District	1
Greene	Greene County Public Health	1
Hamilton	Hamilton County Public Health	2
	Cincinnati Health Department	37
Hancock	Hancock Public Health	23
Hocking	Hocking County Health Department	7
Lake	Lake County General Health District	6
Lorain	Lorain County Public Health	44
Mahoning	Mahoning County Public Health	10
Medina	Medina County Health Department	14
Meigs	Meigs County Health Department	1
Morgan	Morgan County Health Department	4
Ottawa	Ottawa County Health Department	5
Pike	Pike County General Health District	2
Portage	Portage County Health District	35
	Kent City Health Department	24
Richland	Richland Public Health	62
Scioto	Scioto County Health Department	8
	Portsmouth City Health Department	9
Stark	Stark County Health Department	1
	Canton City Public Health	6
	Alliance City Health Department	8

Breakdown of <i>Aedes triseriatus</i> Identified		
County	Agency	Total
Summit	Summit County Public Health	180
	Barberton Norton Mosquito Abatement District	33
Tuscarawas	Tuscarawas County Health Department	2
	New Philadelphia City Health Department	6
Union	Union County Health Department	2
Vinton	Vinton County Health Department	3
Wayne	College of Wooster	3
Wood	Bowling Green State University	11
Total:		680

Here is the breakdown of *C. perturbans* collections by agency:

Breakdown of <i>Coquilleltidia perturbans</i> Identified		
County	Agency	Total
Ashtabula	Ashtabula City Health Department	6
Darke	Darke County General Health District	1
Fairfield	Fairfield Department of Health	1
Franklin	Franklin County Public Health	8
Portage	Portage County Health District	1
	Kent City Health Department	429
Stark	Stark County Health Department	2
Summit	Summit County Public Health	1
	Barberton Norton Mosquito Abatement District	249
Wood	Bowling Green State University	14
Total:		712



Tick Surveillance*

*Identifications provided by the Ohio Department of Health, the Ohio State University and local health agencies.

Here is a breakdown by tick species identified:

2022 Tick Species Identified in Ohio, as of 7/7/22					
Species	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
<i>Amblyomma americanum</i> (Lonestar tick)	57	31	148	1	237
<i>Amblyomma maculatum</i> (Gulf Coast tick)	2	6			8
<i>Dermacentor variabilis</i> (American Dog tick)	226	177			403
<i>Haemaphysalis longicornis</i> (Asian longhorned tick)			1		1
<i>Ixodes scapularis</i> (Blacklegged tick)	168	96	154	7	425
Totals:	453	310	303	8	1,074

Here is a breakdown of *Ix. scapularis* submissions by county:

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Allen			1		1
Ashland	1				1
Ashtabula	3	4		1	8
Athens	15	2	2		19
Belmont	1	1			2
Carroll	2		1	1	4
Clermont	1		1		2
Columbiana	25	25	61		111

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Coshocton	59	47			106
Cuyahoga	4	2	2		8
Erie	2		2		4
Franklin	4		1		5
Gallia		1	58	5	64
Geauga	3	1	1		5
Greene			1		1
Guernsey			1		1
Hamilton	5				5
Highland	1		1		2
Hocking	1	1	1		3
Holmes	1	2			3
Jackson	1		1		2
Jefferson	2		1		3
Knox	2		1		3
Lake	3	1	1		5
Licking	2		2		4
Lucas	1				1
Mahoning	1				1
Medina	2	1			3
Montgomery	1				1
Morrow		1			1
Noble	1				1
Ottawa	1				1
Portage	4	1			5
Ross			12		12
Scioto	1				1
Stark	3				3
Summit	9		2		11
Tuscarawas	1				1
Washington		1			1
Wayne	3	5			8

Breakdown of Blacklegged Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Williams	2				2
Totals:	168	96	154	7	425

Here is a breakdown of *D. variabilis* submissions by county:

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Adams	1				1
Ashland	3				3
Ashtabula	1	1			2
Athens	21	18			39
Belmont		2			2
Butler	3	5			8
Carroll	1				1
Clark	3				3
Clermont	4	1			5
Columbiana	3	4			7
Coshocton	8	2			10
Crawford	1				1
Cuyahoga	10	5			15
Darke		1			1
Delaware	4	4			8
Erie	5	7			12
Fairfield		2			2
Franklin	11	7			18
Gallia	17	9			26
Geauga	3	1			4
Greene	2	3			5
Guernsey	1				1
Hamilton	9	5			14

Breakdown of American Dog Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Hancock	1	1			2
Hardin	1				1
Hocking	1	1			2
Huron	1				1
Jackson		2			2
Knox	1				1
Lake	4	2			6
Licking	7	3			10
Logan	2				2
Lorain	55	54			109
Lucas	3	2			5
Mahoning	2	1			3
Medina	11	8			19
Montgomery	1	3			4
Morgan	1	1			2
Morrow	1				1
Ottawa		2			2
Portage	4	4			8
Preble		1			1
Putnam	1				1
Richland	3	2			5
Seneca		1			1
Stark	2	1			3
Summit	4	7			11
Warren	3	1			4
Wayne	2				2
Wood	4	1			5
Wyandot		1			1
unknown		1			1
Totals:	226	177	0	0	403

Here is a breakdown of *A. americanum* submissions by county:

Breakdown of Lone Star Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Adams	3	2	3		8
Athens	10		4		14
Auglaize		1			1
Gallia	22	15	94	1	132
Hamilton	1	1			2
Hocking	2		1		3
Jackson	1	1			2
Knox	1				1
Meigs		1			1
Montgomery	1				1
Ross	12	10	45		67
Scioto	1				1
Vinton	1		1		2
unknown	2				2
Totals:	57	31	148	1	237

Here is a breakdown of *A. maculatum* submissions by county:

Breakdown of Gulf Coast Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Butler	1	3			4
Hamilton	1	3			4
Totals:	2	6	0	0	8

Here is a breakdown of *H. longicornis* submissions by county:

Breakdown of Asian Longhorned Ticks Identified					
County	Life Stage				Totals:
	Adult Females	Adult Males	Nymphs	Larvae	
Gallia			1		1
Totals:	0	0	1	0	1